

Amendments to the Specification:

Please replace the title at the top of page 1 with the following amended title:

SYSTEM AND METHOD FOR CAPTURING COLOR IMAGES THAT EXTENDS
THE DYNAMIC RANGE OF AN IMAGE SENSOR USING FIRST AND SECOND
GROUPS OF PIXELS

Please replace the paragraph that begins on page 10, line 13 with the following paragraph:

The error correction unit ~~528~~ 628 corrects the intensity value errors that result from using a distribution of pixels with two different sensitivities. Referring to Fig. 6, if the demosaiced green intensity value of a pixel exceeds the top end of the common dynamic range of the G_1 and G_2 pixels (i.e., point A), then it can be assumed that light incident on at least some of the G_1 pixels exceeds the top end of the G_1 pixel dynamic range. Although the light exceeds the top end of the G_1 pixel dynamic range, the output of the G_1 pixels is range-limited to 1,023 and therefore the demosaiced green intensity value is held artificially low. Because the G_2 pixels are more sensitive to bright areas, it can be assumed that the G_2 pixels give accurate output values in response to the incident light.